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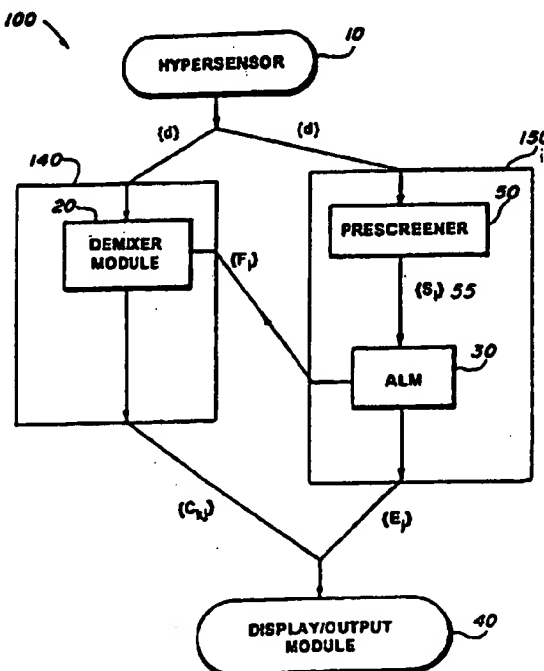
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(54) Title: COMPRESSION OF HYPERDATA WITH ORASIS MULTISEGMENT PATTERN SETS (CHOMPS)

(57) Abstract

The intelligent hypersensor processing system (IHPS) is a system for rapid detection of small, weak, or hidden objects, substances, or patterns embedded in complex backgrounds, providing fast adaptive processing for demixing (20) and recognizing patterns or signatures in data provided by certain types of hypersensors (10). This system represents an alternative to prior systems for hidden object detection. The CHOMPS version of IHPS provides an efficient means of processing, compressing and manipulating the vast quantities of data collected by the sensors. CHOMPS uses the adaptive learning module (30) to construct a compressed data set along with scene mapping data for later reconstruction of the complete data set (40).



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